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**1** Query evaluation techniques for large databases 82%



Goetz Graefe

**ACM Computing Surveys (CSUR)** June 1993

Volume 25 Issue 2

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

**2** A high-speed network interface for distributed-memory systems: 77%



architecture and applications

Peter Steenkiste

**ACM Transactions on Computer Systems (TOCS)** February 1997

Volume 15 Issue 1

Distributed-memory systems have traditionally had great difficulty performing network I/O at rates proportional to their computational power. The problem is that the network interface has to support network I/O for a supercomputer, using computational and memory bandwidth resources similar to those of a workstation. As a result, the network interface becomes a bottleneck. In this article we present an I/O architecture that addresses these problems and supports high-speed network I/O on dist ...

**3** TID hash joins 5%



Robert Marek , Erhard Rahm

**Proceedings of the third international conference on Information and knowledge management** November 1994

**4 Bimodal multicast**

1%



Kenneth P. Birman , Mark Hayden , Ozgur Ozkasap , Zhen Xiao , Mihai Budiu , Yaron Minsky

**ACM Transactions on Computer Systems (TOCS)** May 1999

Volume 17 Issue 2

There are many methods for making a multicast protocol "reliable." At one end of the spectrum, a reliable multicast protocol might offer totality guarantees, such as all-or-nothing delivery, delivery ordering, and perhaps additional properties such as virtually synchronous addressing. At the other are protocols that use local repair to overcome transient packet loss in the network, offering "best effort" reliability. Yet none of this prior work has treated stability ...

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